

## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:  
 QUIN HOELLWARTH  
 BEYER WEAVER & THOMASALLEN:  
 P.O. BOX 778  
 BERKELEY, CA 94704-0778

PCT

NOTIFICATION OF TRANSMITTAL OF  
 THE INTERNATIONAL SEARCH REPORT AND  
 THE WRITTEN OPINION OF THE INTERNATIONAL  
 SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference APL1P284.WO	Date of mailing (day/month/year) 14 JUN 2006
International application No. PCT/US04/25452	FOR FURTHER ACTION See paragraphs 1 and 4 below
Applicant APPLE COMPUTER INC.	International filing date (day/month/year) 06 August 2004 (06.08.2004)

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:  
 The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70.

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

## 4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201 Form PCT/ISA/220 (January 2004)	Authorized officer Jimmy H Nguyen Telephone No. 571-272-7675
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(See notes on accompanying sheet)

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## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference APL1P284.WO	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US04/25452	International filing date (day/month/year) 06 August 2004 (06.08.2004)	(Earliest) Priority Date (day/month/year) 18 August 2003 (18.08.2003)
Applicant APPLE COMPUTER INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the Report

a. With regard to the language, the international search was carried out on the basis of:



the international application in the language in which it was filed.



a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐

With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I

2. ☐

Certain claims were found unsearchable (See Box No. II)

3. ☐

Unity of invention is lacking (See Box No. III)

4. ☐

With regard to the title,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

## 5. With regard to the abstract,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

## 6. With regard to the drawings,

a. ☐

the figure of the drawings to be published with the abstract is Figure No. 7A



as suggested by the applicant.



as selected by this Authority, because the applicant failed to suggest a figure.



as selected by this Authority, because this figure better characterizes the invention.

b. ☐

none of the figures is to be published with the abstract.

Form PCT/ISA/210 (first sheet) (April 2005)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/25452

## Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

## NEW ABSTRACT

An input device is disclosed. The input device includes a movable touch pad (72) capable of detecting an object in close proximity thereto so as to generate a first control signal. The input device also includes a movement indicator (78) capable of detecting the movements of the movable touch pad so as to generate one or more distinct second control signals. The control signals being used to perform actions in an electronic device operatively coupled to the input device.

Form PCT/ISA/210 (continuation of first sheet(3)) (April 2005)

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/25452

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: G09G 5/00(2006.01)

USPC: 345/173

According to International Parent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 345/173-177; 178/18.03-18.06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,243,080 B1 (MOLNE) 05 June 2001 (05.06.2001), Figures 1, 2 and 6, column 1, line 65 through column 2, line 1, column 2, lines 5-36, column 3, line 15 through column 5, line 6, and column 6, line 46 through column 7, line 34.	1-31
X	US 6,429,846 B2 (ROSENBERG et al) 06 August 2002 (06.08.2002), Figures 1, 2, 6 and 7, column 2, lines 20-25, column 3, lines 54-63, column 4, lines 2-10, column 9, lines 13-39 and lines 60-66, column 11, lines 12-22, column 14, lines 54-65, and column 15, lines 39-44 and lines 48-59.	1-31

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"Z" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
12 May 2006 (12.05.2006)Date of mailing of the international search report  
14 JUN 2006Name and mailing address of the ISA/US  
Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
Facsimile No. (571) 273-3201Authorized officer  
Jimmy H. Nguyen

Telephone No. 571-272-7675

Form PCT/ISA/210 (second sheet) (April 2005)

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**INTERNATIONAL SEARCH REPORT****International application No.**  
**PCT/US04/25452****Continuation of B. FIELDS SEARCHED Item 3:**

**EAST; Databases: USPAT, US-PGPUB, EPO, JPO, USOCR, DERWENT, IBM\_TDB; Searched Terms: movable/rotatable/tiltable/pivotable touchpad/touchscreen/tablet/digitizer, depress/press, button, switch, sensor, resistive/resistant/capacitive/optical/pressure/acoustic sensor/sensitive/sensing, button/switch zones/areas/portions, wired communication/connection/transmission, wireless, frame, housing, base, absolute mode, relative mode.**

Form PCT/ISA/210 (extra sheet) (April 2005)

PAGE 9/12 \* RCVD AT 9/26/2006 7:37:29 PM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-3/13 \* DNIS:2738300 \* CSID:16509618301 \* DURATION (mm-ss):03-30

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From the  
INTERNATIONAL SEARCHING AUTHORITY

# PATENT COOPERATION TREATY

To:  
QUIN HOELL WARTH  
BEYER WEAVER & THOMAS, LLP  
P.O. BOX 778  
BERKELEY, CA 94704-0778

## PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference

APL1P284.WO

Date of mailing  
(day/month/year)

14 JUN 2006

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/US04/25452

International filing date (day/month/year)

06 August 2004 (06.08.2004)

Priority date (day/month/year)

18 August 2003 (18.08.2003)

International Patent Classification (IPC) or both national classification and IPC

IPC: G09G 5/00(2006.01)

USPC: 345/173

Applicant

APPLE COMPUTER INC.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

## 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Date of completion of this opinion 12 May 2006 (12.05.2006)	Authorized officer Jimmy H. Nguyen <i>Rugenia Zogor</i> Telephone No. 571/272-7675
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Form PCT/ISA/237 (cover sheet) (April 2005)

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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US04/25452

**Box No. I Basis of this opinion**

1. With regard to the language, this opinion has been established on the basis of:

- ☒ the international application in the language in which it was filed  
☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing  
☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper  
☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed.  
☐ filed together with the international application in electronic form.  
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

Form PCT/ISA/237(Box No. I) (April 2005)

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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**International application No.  
PCT/US04/25452**Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)

Claims NONE

YES

Claims 1-31

NO

Inventive step (IS)

Claims NONE

YES

Claims 1-31

NO

Industrial applicability (IA)

Claims 1-31

YES

Claims NONE

NO

**2. Citations and explanations:**

1. Claims 1-31 lack novelty under PCT Article 33(2) as being anticipated by Molne (US 6,243,080 B1).

As to these claims, Molne discloses a computing system (see Fig. 1, col. 1, line 65 through col. 2, line 1 and col. 7, lines 30-34) comprising a computing device (see Fig. 6) including a processor (122), an inherent display controller for driving a display 14, a memory (124), and an input/output controller (130, 140) and capable of receiving, processing and outputting data; and an input device (Fig. 1 showing input device comprising a touch sensitive panel 30 and a keypad 16). Molne further teaches the touch panel 30 being movable (see Fig. 3) and configured to generate tracking signals (col. 3, lines 18-36) and one or more movement indicators (switches 80, see Fig. 3) configured to generate one or more button signals when the touch pad is depressed (col. 4, lines 18-32 and col. 6, lines 31-45). Molne also teaches that the input device can be separated from or integrated with the computer device (col. 1, line 65 through col. 2, line 1). In the case that the input device is integrated with the computer device, the input device is inherently connected to the computer device through a wired connection. In the case that the input device is separated from the computer device, Molne teaches the input device operatively connected to the computer device through a wireless connection (col. 1, line 65 through col. 2, line 1). Accordingly, Molne discloses all the limitations of these claims.

2. Claims 1-31 lack novelty under PCT Article 33(2) as being anticipated by Rosenberg et al (US 6,429,846 B2) hereinafter Rosenberg.

As to these claims, Rosenberg discloses a computing system (see Fig. 1) comprising a computing device (see Fig. 6) including a microprocessor (see col. 4, line 7), an inherent display controller for driving a display, a memory for storing programs (see col. 6, lines 7-10), and an inherent input/output controller and capable of receiving, processing and outputting data; and an input device being either integrated with the computer device (see Fig. 1) or separated from the computing device (see Fig. 2, col. 6, lines 55-62) and comprising a movable touchpad 16 (see Figs. 1, 2, 7 and 8) configured to generate tracking signals (col. 4, lines 2-5) and one or more movement indicators (actuators 86, see Figs. 8A and 8B) configured to generate one or more button signals when the touch pad is depressed (col. 9, lines 13-39, col. 11, lines 12-22, col. 14, lines 54-65, col. 15, lines 39-44). See col. 2, lines 20-25. Further, Rosenberg teaches the input device operatively connected to the computer device through either a wired connection or a wireless connection (see col. 5, lines 32-40). Accordingly, Rosenberg discloses all the limitations of these claims.

Form PCT/ISA/237 (Box No. V) (April 2005)